

Coimbatore Institute of Technology

Department of Computing

Five year integrated M.Sc., (Data Science)

PROGRAMME EDUCATIONAL OBJECTIVES (PEOS)

Our Graduates will:

PEO 1 Expertise in Analytical solution: Be uniquely positioned to pioneer new developments in the data science field, and to be leaders in industry, the public sector, and academia

PEO 2 Research: Promote research in the development of leading innovative products

PEO 3 Leadership: Inspire and guide the groups they work with in bringing their ideas to fruition, with managerial skills, self-assurance and integrity.

PEO 4 Social Responsibility: commit to social ethical and professional responsibilities.

PEO 5 Life-long Learning: Participate in life-long learning to enhance knowledge and skills necessary to contribute to the betterment of profession

PEO 6 Entrepreneurship: Become Successful entrepreneurs with the strong business managerial skills.

PROGRAMME OUTCOMES (POS)

Students in the M.Sc.(Data Science) should possess the following abilities:

PO1: Develop mathematical models and their computational solutions to reason and interpret massive amount of data in wide range of domains

PO2 : Collect and Analyze large quantities of data to discover new knowledge pattern and facilitate decision making

PO3 : Apply techniques and tools of data science to design and develop the systems for analyzing the rapidly growing data in the fields of medicine, business, geosciences and scientific research

PO4 : Develop scalable techniques for data analysis and decision making in many areas, including machine learning, algorithms, statistics, operations research, databases, complexity analysis, visualization, and privacy and security

PO 5 : Communicate effectively with decision makers to derive intelligent analytical systems

PO6 : Work with professional, and ethical values

PO7 : Understand and solve legal and security issues of analytical applications

PO8 : Recognize the importance of research to develop leading innovative analytical products

PO 9 : Self learning and adaptation to the emerging technologies to address the challenging issues